

IN THE CLAIMS

Please make the following claim substitutions:

1 1. (Currently amended) A method for use in a node of a packet network,~~the~~
2 ~~method comprising the steps of:~~

3 storing location information of other nodes of the packet network, wherein said
4 location information comprises a global position represented by at least two
5 coordinates; and

6 exchanging the stored location information with adjacent nodes of the packet
7 network.

1 2. (Original) The method of claim 1 wherein the stored location information
2 further comprises associated time-stamp information for indicating an age of the
3 location information of the other nodes.

1 3. (Currently amended) A method for use in a node of a packet network,~~the~~
2 ~~method comprising the steps of:~~

3 storing location information of other nodes of the packet network, wherein said
4 location information comprises a global position represented by at least two
5 coordinates;

6 receiving location information from at least one adjacent node of the packet
7 network; and

8 merging the received location information with the stored location information for
9 updating to update the stored location information ~~to more current values~~.

1 4. (Currently amended) The method of claim 3, wherein the stored location
2 information further comprises associated time-stamp information ~~for indicating to~~
3 indicate an age of the location information of the other nodes and wherein the merging
4 step compares time-stamp information of said received location information to time-
5 stamp information of said stored location information for determining the more current
6 values.

1 5. (Currently amended) A method for use in a node of a packet network,~~the~~

method comprising the steps of:

transmitting location information of the node to other nodes of the packet network that are a part of a local topology of the node, wherein said location information comprises a global position represented by at least two coordinates; and

transmitting a location list to nodes of the local topology that are adjacent, wherein the location list comprises location information of ~~at least some~~ at least some of the nodes of the packet network.

6. (Currently amended) The method of claim 5, wherein the location list further comprises associated time-stamp information ~~for indicating~~ to indicate an age of the location information of the ~~at least some~~ at least some of the nodes of the packet network.

7. (Original) The method of claim 5 wherein at least one of the transmitting steps is periodically performed.

8. (Currently amended) The method of claim 5, further comprising the steps of:
receiving location information from at least one adjacent node of the local topology; and
merging the received location information with the location list ~~for updating~~ to update the location list ~~to more current values~~.

9. (Currently amended) Apparatus for use in a node of a packet network, the apparatus comprising:

a global positioning system receiver for determining location information of the node;

a memory for storing a location list comprising location information for other nodes of the packet network, wherein said location information comprises a global position represented by at least two coordinates; and

a communications interface for transmitting, at different times, the determined location information of the node, and the stored location list, to at least one other node of the packet network.

1 10. (Currently amended) Apparatus for use in a node of a packet network, the
2 apparatus comprising:

3 ~~a memory for storing a location list comprising location information for other~~
4 ~~nodes of the packet network; and~~

5 means for generating a location list comprising location information for other
6 nodes of the network from at least one adjacent node, wherein said location information
7 comprises a global position represented by at least two coordinates; and

8 a communications interface for transmitting the ~~stored~~ generated location list to
9 at least one adjacent node ~~of the packet network~~.

1 11. (Currently amended) The apparatus of claim 10, further comprising a
2 processor, and wherein ~~the communications interface receives a location list from at~~
3 ~~least one adjacent node of the packet network and the processor merges the received~~
4 location list with the stored location list for updating to update the stored location list to
5 more current values.

1 12. (New) The method of claim 1, wherein said node stores a local topology
2 and said node stores said location information of other nodes within and outside said
3 local topology.

1 13. (New) The method of claim 12, wherein said node uses a geometry-based
2 routing protocol to transmit said location information to nodes outside of said local
3 topology.

1 14. (New) The method of claim 13, wherein said node determines a distance
2 from a destination node outside of said local topology to nodes in said local topology
3 using said geometry-based routing protocol and said location information to identify the
4 closest node in said local topology for routing to said destination node.

1 15. (New) The method of claim 1, wherein said node determines said
2 coordinates from information received from a global positioning system.

1 16. (New) A method for use in a node of a network comprising:

2 transmitting location information of the node to other nodes of the network that
3 are a part of a local topology of the node, wherein said location information comprises a
4 global position represented by at least two coordinates;

5 receiving location information from at least one adjacent node of the network;
6 and
7 updating said location information stored at said node with said received location
8 information.

1 17. (New) The method of claim 12, said local topology of said node being
2 nodes located within a predetermined number of hops from said node.

1 18. (New) The method of claim 17, wherein said local topology of said node
2 comprises a first set of nodes having a point-to-point link to said node and a second set
3 of nodes having a point-to-point link to a node in said first set of nodes.

1 19. (New) A method for use in a node of a network, comprising:
2 a) receiving a location list comprising location information for other nodes of the
3 network from at least one adjacent node, wherein said location information comprises a
4 global position represented by at least two coordinates;
5 b) generating said location list;
6 c) transmitting the generated location list to at least one adjacent; and
7 d) repeating steps a) through c).
